



# The Gazette of Meghalaya

EXTRAORDINARY

PUBLISHED BY AUTHORITY

No. 318

Shillong, Monday, August 20, 2018

29<sup>th</sup> Sravana, 1940 (S. E.)

## PART-III

### ELECTION COMMISSION OF INDIA

Nirvachan Sadan,

Ashoka Road,

New Delhi-110001

Dated the 13<sup>th</sup> August, 2018

22<sup>nd</sup> Sravana, 1940 (Saka)

### NOTIFICATION

**No.576/EXIT/ECI/LET/FUNC/JUD/SDR/Vol.I/2018.-** Whereas, the schedule for the Bye-Election to the Legislative Assembly in the State of Meghalaya, has been announced by the Commission *vide* Press Note No.ECI/PN/51/2018, dated 23<sup>rd</sup> July, 2018 & No.ECI/PN/53/2018, dated 27<sup>th</sup> July, 2018.

2. And whereas, as per the provisions of Section 126A of the R.P. Act, 1951, there shall be restrictions on conduct of any exit poll and publication and dissemination of result of such exit poll during such period as may be notified by the Election Commission in this regard;
3. Now, therefore, in exercise of the powers under sub-Section (1) of Section 126A of the R.P. Act, 1951, the Election Commission, having regard to the provisions of Sub-Section (2)(b) of the said Section, hereby notifies the period between **7.00 A.M.** and **5.30 P.M.** on **23<sup>rd</sup> August, 2018 (Thursday)**, as the period during which conducting any exit poll and publishing or publicizing by means of the print or electronic media or dissemination in any other manner whatsoever, the result of any exit poll in connection with the said bye-elections announced *vide* the Commission's Press Note No.ECI/PN/51/2018, dated 23<sup>rd</sup> July, 2018 & No.ECI/PN/53/2018, dated 27<sup>th</sup> July, 2018 from **51-South Tura (ST) Assembly Constituency & 35-Ranikor (ST) Assembly Constituency in Meghalaya** shall be prohibited.

4. It is further clarified that under Section 126(1)(b) of the R.P. Act, 1951, displaying any election matter including results of any opinion poll or any other poll survey, in any electronic media, would be prohibited during the period of 48 hours ending with the hours fixed for conclusion of poll for the aforesaid bye-election.

By order,



**N. T. BHUTIA,**  
SECRETARY,  
ELECTION COMMISSION OF INDIA.

**T. LYNGWA,**

Joint Secretary to the Govt. of Meghalaya,  
Election Department and Additional Chief Electoral Officer,  
Meghalaya.



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## PART-IIA

### MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION

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#### NOTIFICATION

The 10<sup>th</sup> August, 2018.

#### MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION (DEVIATION, SETTLEMENT MECHANISM AND RELATED MATTERS) REGULATIONS, 2018

**No.MSERC/REGULATIONS/2018/02.-** In exercise of the powers conferred under sub-section (3) of Section 32, sub-section (4) of Section 33, Clauses (b) and (h) of sub-section (1) of Section 86, and Clauses (g) and (zp) of Section 181 of the Electricity Act, 2003 (36 of 2003), and all other powers hereunto enabling it and in its behalf, the Meghalaya State Electricity Regulatory Commission hereby makes the following regulations, for previous publication, namely: "Meghalaya State Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2018."

#### 1. Short title and commencement

- 1 These regulations may be called the Meghalaya State Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2018.
- 2 These regulations except commercial arrangements, deviation charges and penalty shall come into force with effect from the date of notification in the Meghalaya Gazette.

Provided that the commercial arrangements specified under clause 9 and 10 these Regulations, and the related provisions regarding Deviation Charges, Additional Charge for Deviation and penal actions if any, shall come into force six months thereafter.

## 2. Definitions and Interpretation

1 In these regulations, unless the context otherwise requires -

- a. **'Act'** means the Electricity Act, 2003 (36 of 2003);
- b. **'Actual drawal'** in a time-block means electricity drawn by a buyer, as the case may be, measured by the interface meters;
- c. **'Actual injection'** in a time-block means electricity generated or supplied by the seller, as the case may be, measured by the Interface meters;
- d. **'Buyer'** means a person, including distribution licensee or open access consumer, purchasing electricity through a transaction scheduled in accordance with the regulations applicable for short-term open access, medium-term open access and long-term access;
- e. **'Connectivity Regulations'** means the Meghalaya State Electricity Regulatory Commission (Terms and Conditions of Open Access) Regulations, 2012 as amended from time to time and shall include any subsequent amendment thereof.
- f. **'Commission'** means the Meghalaya State Electricity Regulatory Commission referred to in sub-section (1) of section 82 of the Act;
- g. **'Deviation'** in a time-block for a Seller means its total actual injection minus its total scheduled generation and for a Buyer means its total actual drawal minus its total scheduled drawal, and shall form part of the State Energy Accounts to be prepared by SLDC.
- h. **'Deviation Settlement Mechanism'** shall mean and include the framework for energy accounting, Deviation Accounting, Rules for pricing of Deviation(s) payable and receivable by State Entities and other design parameters as specified under Regulation 6 of these Regulations.
- i. **'Full Open Access Consumer'** shall mean Open Access Consumer connected to transmission system or distribution system but not having any contract demand with the distribution licensee within the state;
- j. **'Gaming'** in relation to these regulations, shall mean an intentional mis-declaration of declared capacity by any seller in order to make an undue commercial gain through Charge for Deviations;
- k. **'Grid Code'** means the Grid Code specified by the Commission under clause (h) of sub-section (1) of Section 86 of the Act.
- l. **'Indian Electricity Grid Code' (or 'IEGC')** means the Grid Code specified by the Central Electricity Regulatory Commission under Section 79(1)(h) of the Act;
- m. **'Interface meters'** means interface meters as defined by the Central Electricity Authority under the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, as amended from time to time.

- n. **'Load Despatch Centre'** means National Load Despatch Centre, Regional Load Despatch Centre or State Load Despatch Centre, as the case may be, responsible for coordinating scheduling of the Buyers and the Sellers in accordance with the provisions of Grid Code;
  - o. **'Open Access Regulations'** means the Meghalaya State Electricity Regulatory Commission (Terms and Conditions of Open Access) Regulations, 2012 as amended from time to time and shall include any subsequent amendment thereof.
  - p. **'Partial Open Access Consumer'** shall mean Open Access Consumer connected to transmission system or distribution system and having part of his contract demand with the distribution licensee within the state;
  - q. **'Scheduled Generation'** at any time or for a time block or any period means schedule of generation in MW or MWh ex-bus given by the concerned Load Despatch Centre;
  - r. **'Scheduled Drawal'** at any time or for a time block or any period time block means schedule of despatch in MW or MWh ex-bus given by the concerned Load Despatch Centre;
  - s. **'Seller'** means a person, including a generating station, supplying electricity through a transaction scheduled in accordance with the regulations applicable for short-term open access, medium-term open access and long-term open access;
  - t. **'State Deviation Pool Account'** means the State Account for receipts and payments on account of deviations by buyers and sellers.
  - u. **'State Entity'** means such person who is in the SLDC control area and whose metering and energy accounting is done at the state level
  - v. **'Time-Block'** means a time block of 15 minutes or any such shorter duration as may be notified by Central Commission and State Commission, for which specified electrical parameters and quantities are recorded by special energy meter, with first time block starting at 00.00 hrs;
- 2 Save as aforesaid and unless repugnant to the context or the subject-matter otherwise requires, words and expressions used in these regulations and not defined, but defined in the Act, or the Grid Code or any other regulations of this Commission shall have the meaning assigned to them respectively in the Act or the Grid Code or any other regulation as the case may be.

### 3. Objective

The objective of these regulations is to maintain grid discipline and grid security as envisaged under the Grid Code through the commercial mechanism for Deviation Settlement through drawal and injection of electricity by the users of the grid.

#### 4. **Applicability**

These regulations shall apply to the transactions of conveyance of electricity through short-term open access or medium-term open access or long-term open access using intra-State transmission system or distribution system of electricity (including inter-state wheeling of power), subject to following conditions:-

- (A) Deviation Settlement Mechanism under these Regulations shall be applicable for all Seller(s), including Open Access Generators, Captive Generators (excluding In-Situ Captive Generators) connected to Intra-State Transmission system but excluding Wind and Solar Generating Station(s).

Provided that, Forecasting, Scheduling and Deviation Settlement related matters in respect of Wind and Solar generation shall be governed as per the provisions of “Meghalaya State Electricity Regulatory Commission (Forecasting, Scheduling and Deviation Settlement for Solar and Wind Generation) Regulations, 2018” as and when notified by the Commission.

- (B) Deviation Settlement Mechanism under these Regulations shall be applicable for all Buyer(s) including Distribution Licensee(s), Deemed Distribution Licensee(s) located in the State and Full Open Access Consumers connected to Intra-State Transmission system.

Provided that, Deviation Settlement of Partial Open Access Consumers connected to Intra-State Transmission system and all Open Access Consumers connected to Distribution Network shall be in accordance with the provisions of Meghalaya State Electricity Regulatory Commission (Terms and conditions of open access) Regulations, 2012 and its amendment thereof.

#### 5. **Duties of State Load Despatch Centre and State entities**

These Regulations aim to govern the functioning of the various State Entities in a way that discipline is maintained with regards to the injection and drawal of energy by such State Entities and the reliability and integrity of power system is maintained.

In order to meet these objectives, necessary preconditions and covenants for participation by State Entities shall be as under:

- (1) The State Entities shall inform the SLDCs of all contracts they have entered into for exchange of energy.
- (2) State Entities shall operate their equipment and loads in a manner that is consistent with the provisions of the Indian Electricity Grid Code and the Meghalaya State Electricity Grid Code.
- (3) State Entities shall enter into Connection Agreement/Open Access Agreement with the concerned transmission licensee, which shall specify the physical and operational requirements for a reliable operation and gain physical access and connection to the intra-State transmission system (InSTS) or enter into Connection Agreement/Open Access Agreement with concerned Distribution Licensee for use of distribution system, as the case may be in accordance with Meghalaya State Electricity Regulatory Commission (Terms and Conditions of Open Access Regulations), 2012, and its amendment thereof. State Entities shall make necessary arrangements for putting up suitable meters, capable of recording energy flows at 15-minute intervals or any other time interval as specified by the Commission, at the points of injection and drawal. The time synchronisation of metering

system shall be through Global Positioning System with counter check from the State Energy Accounting Centre which is the SLDC.

- (4) SLDC shall take all decisions with regard to the despatching of stations after evaluating all possible network parameters, constraints, congestions in the transmission network and in the eventuality of any such network aberration, the instructions by the SLDC with regard to despatch and drawal shall be binding on all State Entities.

SLDC shall publish all such information as required for all other State Entities to be aware of the energy exchanges taking place within the pool as well as exigency conditions, if any with regard to despatch of power.

## 6. Principles for operationalising Deviation Settlement Mechanism

The framework for Deviation Settlement Mechanism shall cover the following key design parameters, viz. (a) Scheduling period (b) Guiding principles for scheduling and despatch (c) Operating range of frequency (d) Deviation (e) Settlement period (f) Measurement unit for State Deviation Pool Account (g) Deviation Pool Price Vector (h) Deviation Volume Limit (i) Premise for allocation of losses.

- (A) **Scheduling Period:** The scheduling period shall comprise of 96 time blocks, each of 15-minute duration starting from 00:00 hours (IST) ending with 24:00 hours (IST). The first time block of scheduling period shall commence from 00:00 hours (IST) to 00:15 hours (IST), second time block of scheduling period shall commence from 00:15 hours (IST) to 00:30 hours (IST) and so on or such other period as the Commission may stipulate.

Based on the availability schedule forecasted by Sellers and load requirement forecasted by Buyers, the SLDC shall draw up the least cost despatch schedule on Day Ahead basis for the State Entities in accordance with the merit order principles approved by State Commission from time to time;

Provided that wheeling transactions of captive users and open access consumers shall be despatched as contracted subject only to transmission constraints and system emergency conditions.

- (B) **Guiding principles for scheduling and despatch:** All the Sellers and Buyers under these Regulations shall be guided by the scheduling and Despatch procedure to be formulated by SLDC in accordance with provisions of Meghalaya State Grid Code.
- (C) **Operating Range for Frequency:** The normal operating range for average grid frequency for time block shall be in line with range stipulated under IEGC and Meghalaya State Grid Code from time to time. No Deviation shall be allowed beyond the specified operating range of frequency band by the Commission time to time.
- (D) **Deviation:** For the purposes of Deviation settlement amongst State Entities, the SLDC shall work out the Deviation for 'State Deviation Pool Account' comprising over-drawal/under-drawal and over-injection and under-injection for each State Entity corresponding to each Scheduling period. Charges for deviation shall be in accordance to regulation 9 and 10 of these regulations.
- (E) **Settlement Period:** Preparation and settlement of 'State Deviation Pool Account' shall be undertaken on weekly basis coinciding with mechanism followed for regional energy accounts.

- (F) **Measurement Unit for State Deviation Pool Account:** The measurement unit for State Deviation Pool Account Volume preparation shall be kilowatt hours (kWh). Measurement unit for State Deviation Pool Account Value (Payable and Receivable) preparation shall be Indian Rupees (INR). The decimal component of the energy unit (kWh) and amount (INR) shall be rounded off to nearest integer value.
- (G) **Deviation Pool Price Vector:** The Pricing of Deviation of Buyers/Sellers shall be in accordance with the Deviation Price Vector as specified in the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2014 and its amendments thereof.

Provided that Deviation of Wind/Solar Generators, shall be treated as per the provisions of “Meghalaya State Electricity Regulatory Commission (Forecasting, Scheduling and Deviation Settlement for Solar and Wind Generation) Regulations, 2018”.

Further, additional condition for a change in sign of the deviation shall be met once every 12 time blocks by Buyer/Seller, failing which additional charges @10% of the deviation charges applicable shall be levied for the duration of continuance of violation.

- (H) **Deviation Volume Limit:** In order to ensure grid discipline and grid security, conditions for Deviation Volume Limit and consequences for exceeding such Deviation Volume Limit by way of levy of Additional Deviation Charges as specified under Regulation 10 shall be applicable.
- (I) **Premise for Allocation of Losses:** For the purpose of State Deviation Pool accounting, intra-state transmission system losses as approved by the Commission shall be allocated amongst the State Entities in proportion to the actual drawal by each State Entity.

Provided that State Load Despatch Centre shall maintain account of actual intra-state transmission system loss for each time block and publish reconciliation statement of 52 weekly average loss vis-à-vis approved loss by the Commission on its website.

## 7. Declaration of Capacity and Scheduling

- (1) The provisions of the Meghalaya State Electricity Grid Code and Meghalaya State Electricity Regulatory Commission (Terms and Conditions of Open Access) Regulations, 2012 as amended from time to time, shall be applicable for declaration of capacity and scheduling.
- (2) The generating station, as far as possible, shall generate electricity as per the day-ahead generation schedule finalized by the State Load Despatch Centre in accordance with the Meghalaya State Electricity Grid Code.

Provided that the revision in generation schedule on the day of operation shall be permitted, in accordance with the procedure specified under the Meghalaya State Electricity Grid Code and Meghalaya State Electricity Regulatory Commission (Terms and Conditions of Open Access) Regulations, 2012 as amended from time to time, as the case may be.

## 8. Treatment for Gaming

- (1) The Commission, either *suo-motu* or on a petition made by SLDC, or any affected party, may initiate proceedings against any generating company or seller on charges of gaming and if required, may order an enquiry to be made by such officer of the Commission on such other party as the Commission may deem fit. The enquiry officer so appointed shall submit his



findings within such time as may be fixed by the Commission and such investigating officer or authority shall exercise all powers as envisaged under section 128 of the Act.

- (2) If in the proceeding initiated by the Commission or in the enquiry made in this regard under clause (1) above, it is proved that any generating company or seller has indulged in gaming, the Commission may without prejudice to any other action under the Act or Regulation made thereunder, disallow any charges for deviation to such seller or generating company during the period of such gaming.

## 9. Charges for deviations

### (A) Deviation Charges for Sellers and Buyers:

- (1) The charges for the Deviations for all the time-blocks shall be payable for over-drawal by the Buyer and under-injection by the Seller and receivable for under-drawal by the Buyer and over-injection by the Seller, which are State Entities, and shall be worked out on the average frequency of a time-block by considering the Price Vector for Deviation Charges as specified in the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2014 and its amendments thereof considering the methodology specified in the **Annexure-I** of these Regulations and subject to conditions stipulated under clause (2) to (8) of this regulation:
- (2) Provided that a change in sign of the deviation shall be made once every 12 time blocks, failing which additional charges @10% of the deviation charges applicable shall be levied for the duration of continuance of violation.
- (3) The charges for the Deviation for the generating stations regulated by the Commission using coal or lignite or gas supplied under Administered Price Mechanism (APM) as fuel, when actual injection is higher or lower than the scheduled generation, shall not exceed the <sup>1</sup>Cap Rate to be determined by Central Commission from time to time <sup>2</sup>[303.04] Paise/kWh.
- (4) No cap rate shall be applicable with effect from [the date of revision of price of APM gas by the Government of India] on the charges for the Deviation for the generating stations regulated by the Central Commission using gas supplied under Administered Price Mechanism (APM) as the fuel.
- (5) The charges for the Deviation for the under-drawal by the Buyer in a time block in excess of 12% of the schedule or [X]MW, whichever is less, shall be zero; wherein limit of [X] MW shall be determined as per methodology specified under Clause (B) of the regulation 10 of these Regulations;

<sup>1</sup>Applicable Tariff Rate for imported coal as determined by Central Commission

<sup>2</sup>Present Tariff Rate for imported coal as determined by Central Commission

- (6) The charges for the deviation for the over-injection by the seller in a time block in excess of 12% of the schedule or [10] MW, whichever is less, shall be zero, except in case of injection of infirm power, which shall be governed by clause (8) of this regulation;
- (7) The charge for deviation shall be zero at grid frequency of 50.05 Hz and above.
- (8) The Charges for Deviation may be reviewed by the State Commission from time to time and as and when Deviation Price Vector is revised by Central Commission and shall be re-notified accordingly.
- (9) The infirm power injected into the grid by a generating unit of a generating station during the testing, prior to COD of the unit shall be paid at Charges for Deviation for infirm power injected into the grid, consequent to testing, for a period not exceeding 6 months or the extended time allowed by the Commission, subject to ceiling of Cap Rates corresponding to the <sup>3</sup>[main fuel] as determined by the Central Commission used for such injection. as specified below:

Domestic coal/ Lignite/Hydro	[1.78] / kWh sent out
APM gas as fuel	[2.82]/ kWh sent out <i>up to the date of revision of price of APM gas by Government of India and thereafter, at the rate to be notified by the Commission separately</i>
Imported Coal	[3.03] / kWh sent out
RLNG	[8.24] / kWh sent out

#### 10. Limits on Deviation Volume and consequences of crossing limits

- (A) The over-drawal or under drawal of electricity by any Buyer during a time block shall not exceed 12% of its scheduled drawal or [X] MW, the limit arrived as per clause (B) of this regulation, whichever is lower, when grid frequency is between range of '49.70 Hz and above to below 50.05 Hz.'
- (B) The Volume Limit of [X] MW for distribution licensee(s) and Buyers shall be determined as under:
- Minimum of (12% of schedule, (Peak Demand of Distribution Licensee or Buyer /  $\sum$ NCPD) x State Volume Limit)
- Where NCPD (Non-Coincident Peak Demand) represents the sum of Peak Demand of Distribution Licensee(s) and Buyer(s) subject to condition stipulated under following sub-clause (iii).

<sup>3</sup> to be linked to variable cost for imported coal price as determined by Central Commission

- ii. State Volume Limit shall be linked to Volume Limit (<sup>4</sup>L) applicable to the State as per CERC(Deviation Settlement Mechanism and related matters) Regulations,2014 and its amendments thereof;
- iii. Where Peak Demand of the Distribution Licensee shall be recorded Peak Demand in the previous Financial Year or Projected Peak Demand of Buyer in ensuing Financial Year, whichever is higher;

Provided that no over drawal of electricity by any Buyer shall be permissible when grid frequency is "below 49.70 Hz" and no under drawal of electricity by any Buyer shall be permissible when grid frequency is "50.05 Hz and above".

- (C) The under-injection or over-injection of electricity by Seller shall not exceed following when grid frequency is "49.70 Hz or above and below 50.05 Hz";

- i. 12% of the scheduled injection or **[10] MW**, whichever is lower for a Seller

Provided that in case schedule of a Seller, in a time block, is less than or equal to **[40] MW**, under-injection / over-injection in a time-block shall not exceed [5] MW, when grid frequency is "49.70 Hz or above and below 50.05 Hz".

- (D) In addition to Charges for Deviation as stipulated under Regulation 9 of these Regulations, Additional Charge for Deviation shall be applicable for over-drawal as well as under-injection of electricity for each time block in excess of the volume limit specified in Clause (B) and (C) of this regulation when average grid frequency of the time block is "49.70 Hz and above" at the rates specified in the **Table I of Annexure-II** in accordance with the methodology specified in clause (H) of this regulation:

- (E) Additional Charge for Deviation for under-injection of electricity, during a time-block in excess of the volume limit specified in clause (C) of this regulation when grid frequency is "49.70 Hz and above", by the generating stations regulated by the Commission using coal or lignite or gas supplied under Administered Price Mechanism (APM) as the fuel shall be at the rates specified in **Table II of Annexure-II** in accordance with the methodology specified in clause (J) of this regulation;

- (F) In addition to Charges for Deviation as stipulated under Regulation 9 of these Regulations, Additional Charge for Deviation shall be applicable for over-injection/under drawal of electricity for each time block by a Seller or Buyer, as the case may be; when grid frequency is "50.05 Hz and above" at the rates equivalent to charges of deviation corresponding to the grid frequency of "below 50.01 Hz but not below 50.0 Hz".

- (G) In addition to Charges for Deviation as stipulated under Regulation 9 of these Regulations, Additional Charge for Deviation shall be applicable for over-drawal or under-injection of electricity when grid frequency is "below 49.70 Hz" in accordance with the methodology specified in clause (I) of these Regulations".

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<sup>4</sup>For Meghalaya State Volume Limit (L) is 150 MW

Provided that Additional Charge for Deviation for under-injection of electricity by a Seller, during the time-block when grid frequency is “below 49.70 Hz”, by the generating stations regulated by the Commission using coal or lignite or gas supplied under Administered Price Mechanism (APM) as the fuel in accordance with the methodology specified in clause (J) of this Regulation shall be equivalent to 100% of the Cap Rate of Main Fuel (Imported Coal) as determined by the Central Electricity Regulatory Commission for Deviations.<sup>5</sup>[303.04] Paise/kWh.

- (H) The Additional Charge for Deviation for over-drawal and under-injection of electricity for each time block in excess of the volume limit specified in clause (B) and (C) of this regulation when grid frequency is "49.70 Hz and above" shall be specified by the Commission as a percentage of the charges for the Deviation corresponding to average grid frequency of the time block with due consideration to the behaviour of the Buyers and Sellers towards grid discipline:

Provided that the Commission may specify different rates for additional Charges for Deviation for over drawals and under injections depending upon different % deviation from the schedule in excess of the volume limit specified in clause (B) and (C) of this Regulation.

- (I) The additional Charge for Deviation for over-drawals and under-injection of electricity for each time block when grid frequency is “below 49.70 Hz” shall be as specified by the Commission as a percentage of the charges for the Deviation corresponding to average grid frequency of the time block with due consideration to the behaviour of the Buyers and Sellers towards grid discipline:

Provided that the Commission may specify different rates for Additional Charges for Deviation for over drawls and under injections and for different ranges of frequencies “below 49.70 Hz”.

- (J) The Additional Charge for Deviation for under-injection of electricity during the time-block in excess of the volume limit specified in Clause (C) of this regulation when grid frequency is '49.70 Hz and above□, by the generating stations regulated by the Commission using coal/ lignite or gas supplied under Administered Price Mechanism (APM) as the fuel shall be as specified by the Commission as a percentage of the Cap Rate or the Charges for Deviation corresponding to the grid frequency of the time block, or both with due consideration to the behaviour of the generating stations regulated by the Commission towards grid discipline:
- (K) In the event of sustained deviation from schedule in one direction (positive or negative) by any state entity, such State Entity (Buyer or Seller) shall have to make sign of their deviation from schedule changed, at least once, after every 12 time blocks.

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<sup>5</sup> Present Tariff Rate for imported coal as determined by Central Commission

To illustrate, if a state entity has positive deviation from schedule from 07.30 hrs to 9.00 hrs, sign of its deviation from schedule shall be changed in the 7<sup>th</sup> time block i.e. 9.00 to 9.45 hrs from positive to negative or negative to positive; as the case may be.

#### **11. Treatment of Infirm power and Start Up power prior to COD**

- (1) No under injection of electricity by a seller shall be permissible when grid frequency is “below 49.70 Hz” and no over injection of electricity by a seller shall be permissible when grid frequency is “50.05 Hz and above”.
- (2) Any infirm injection of power by a generating station prior to COD of a unit during testing and commissioning activities shall be exempted from the volume limit as and when specified by the Commission for a period not exceeding 6 months or the extended time allowed by the Commission in accordance with Meghalaya Electricity Regulatory Commission (Grid Connectivity and Intra-State Open Access Regulations), 2012 as amended from time to time.
- (3) Any drawal of power by a generating station prior to COD of a unit for the startup activities shall be exempted from the volume limit specified above when grid frequency is “49.70 Hz and above”.
- (4) Any drawal of power by a generating station prior to COD of a unit for the start-up activities shall be exempted from the levy of additional Charges of Deviation.

#### **12. Framework for operationalisation and monitoring of Deviation Settlement Mechanism**

- (1) State Load Despatch Centre shall develop and publish on its website Procedures and Methodologies for the computation of Charges for Deviation and Additional Charges for deviation for each State Entity for crossing the volume limits specified for the under-drawal /over-injection and for over-drawal and under-injection
- (2) Payment of Charges for Deviation under Regulation 9 and the Additional Charges for Deviation under Clauses (G), (H), and (I) of Regulation 10, shall be levied without prejudice to any action that may be considered appropriate by the Commission under Section 142 of the Act for contravention of the limits of over-drawal/ under drawal or under-injection /over-injection for each time block or violation of provision of clause (K) of Regulation 10.
- (3) The charges for over-drawal/ under-injection and under-drawal/over-injection of electricity shall be computed by the State Load Despatch Centre in accordance with the methodology used for preparation of “State Energy Accounts.”
- (4) The State Load Despatch Centre shall, on weekly basis, prepare and publish on its website the records of the Deviation Accounts, specifying the quantum of over-drawal/ under-injection and corresponding amount of Charges for Deviation payable/receivable for each Buyer and Seller for all the time-blocks when grid frequency was "49.70Hz and above" and "below 49.70" Hz separately.

**13. State Energy Account**

- (1) The State Load Despatch Centre shall prepare the statement of State Energy Account for each time block for sellers and buyers on monthly basis. Data required for billing of open access consumers shall be passed on to the billing centre of the distribution licensee by the SLDC. The billing centre of the distribution licensee shall be responsible for energy accounting, raising and settlement of bills with open access consumers. Payments of capacity and energy charges by the buyers to the sellers shall be as per the provisions in the respective power purchase agreements or agreement(s) with respect to transactions through power exchange and through Short Term Open Access, as the case may be.
- (2) Energy Account Statement for Deviation Settlement of Partial Open Access Consumers connected to Intra-State Transmission system and all Open Access Consumers connected to Distribution Network shall be in accordance with the provisions of Meghalaya Electricity Regulatory Commission (Terms and conditions for grant of connectivity and open access for intra-State transmission and distribution system) Regulations, 2012 and its amendment thereof.
- (3) The State Load Despatch Centre shall be responsible for preparation of weekly deviation charges statement to all State Entities and billing and collection of deviation charges from the State Entities in accordance with regulation 12 of these Regulations.
- (4) A detailed energy accounting procedure shall be prepared by SLDC and submitted to the Commission for approval.

Provided that, SLDC shall undertake stakeholder consultation by uploading the draft procedure on SLDC's website before submission of procedure to the Commission for approval.

**14. Compliance with instructions of Load Despatch Centre**

Notwithstanding anything specified in these Regulations, the Sellers and the Buyers shall strictly follow the instructions of the State Load Despatch Centre on injection and drawal in the interest of grid security and grid discipline.

**15. Accounting of Charges for Deviation**

- (A) A statement of Charges for Deviations including Additional Charges for Deviation levied under these Regulations shall be prepared by SLDC on weekly basis based on the data provided by SLDC by the Thursday of the week and shall be issued to all constituents by next Tuesday, for seven-day period ending on the penultimate Sunday mid-night.
- (B) All payments on account of Charges for Deviation including Additional Charges for Deviation levied under these Regulations and interest, if any, received for late payment shall be credited to the funds called the "State Deviation Pool Account", which shall be maintained and operated by the State Load Despatch Centre in accordance with provisions of these regulations.

Provided that –

- i. the Commission may by order direct any other entity to operate and maintain the respective “State Deviation Pool Account”;
- ii. separate books of accounts shall be maintained for the principal component and interest component of Charges for Deviation and Additional Charges for Deviation by SLDC.
- iii. The State Entities shall comply with statutory requirements of payment of applicable statutory levies, including but not limited to Goods and Service Tax (GST), Tax deduction at source (TDS)
- iv. The State Entities shall facilitate SLDC in meeting with reporting requirements of Statutory Authorities, as necessary.

(C) All payments received in the “State Deviation Pool Account” shall be appropriated in the following sequence:

- i. First towards any cost or expense or other charges incurred on recovery of Charges for deviation.
- ii. Next towards over dues or penal interest, if applicable.
- iii. Next towards normal interest.
- iv. Next dues towards Regional Deviation Pool Account
- v. Lastly, towards charges for deviation and additional charges for deviation.

#### **16. Schedule of Payment of Charges for Deviation**

- (A) The payment of charges for Deviation shall have a high priority and the concerned State Entity shall pay the indicated amounts within 10 (ten) days of the issue of statement of Charges for Deviation including Additional Charges for Deviation by SLDC into the “**State Deviation Pool Account**”.
- (B) If payments against the Charges for Deviation including Additional Charges for Deviation are delayed by more than two days, i.e., beyond twelve (12) days from the date of issue of the statement by the SLDC, the defaulting State Entity shall have to pay simple interest @ 0.04% for each day of delay.
- (C) All payments to the entities entitled to receive any amount on account of charges for Deviation shall be made within 2 working days of receipt of the payments in the “State Deviation Pool Account”.

Provided that –

- i. In case of delay in the Payment of charges for Deviations into the State Deviation Pool Account and interest there on if any, beyond 12 days from the date of issue of the Statement of Charges for Deviations, the State Entities who have to receive payment for Deviation or interest thereon shall be paid from the balance available in the State Deviation Pool Account. In case the balance available is not sufficient to

meet the payment to the State Entities, the payment from the State Deviation Pool Accounts shall be made on pro rata basis from the balance available in the State Deviation Pool Account.

- ii. The liability to pay interest for the delay in payments to the “State Deviation Pool Account” shall remain till interest is not paid; irrespective of the fact that constituents who have to receive payments, have been paid from the “State Deviation Pool Account” in part or full.

(D) All State Entities which had at any time during the previous financial year failed to make payment of Charges for Deviation including Additional Charges for Deviation within the time specified in these Regulations shall be required to open a Letter of Credit (LC) equal to 110% of its average payable weekly liability for Deviations in the previous financial year, in favour of the SLDC within a fortnight from the date these Regulations come into force.

Provided that –

- i. If any State entity fails to make payment of Charges for Deviation including Additional Charges for Deviation by the time specified in these Regulations during the current financial year, it shall be required to open a Letter of Credit equal to 110% of weekly outstanding liability in favour of State Load Despatch Centre within a fortnight from the due date of payment.
- ii. LC amount shall be increased to 110% of the payable weekly liability for Deviation in any week during the year, if it exceeds the previous LC amount by more than 50%.

#### **Illustration**

If the average payable weekly liability for Deviation of a State entity during [2016-17] is `2.0 crore, the State entity shall open LC for 2.2 crore in [2017-18]. If the weekly payable liability during any week in [2017-18] is `3.5 crore which is more than 50% of the previous financial year's average payable weekly liability of Rs 3.0 Crore, the concerned state entity shall increase the LC amount to `3.85 Crore ( $1.1 \times 3.50$ ) by adding 1.65 Crore.

(E) In case of failure to pay into the “State Deviation Pool Account” within the specified time of 12 days from the date of issue of statement of charges for Deviations, the SLDC shall be entitled to encash the LC of the concerned constituent to the extent of the default and the concerned constituent shall recoup the LC amount within 3 days.

### **17. Governance Structure and constitution of State Power Committee**

(A) Within three months from date of notification of these Regulations, the State Load Despatch Centre shall formulate Operating Procedures and Business Rules for constitution of State Power Committee, which shall be approved by the State Commission.

(B) The State Power Committee shall:

- i. Co-ordinate and facilitate the intra-state energy exchange for ensuring optimal utilisation



of resources.

- ii. Monitor compliance of these Regulations by State Entities.
- iii. Guide the SLDC for modification of Procedure(s) in order to address the implementation difficulties, if any.
- iv. Provide necessary support and advice to the Commission for suitable modifications/issuance of Operating Procedures, Practice Directions, and amendment to provisions of this regulations, as may be necessary upon due regulatory process.

**18. Power to amend**

The Commission may, at any time, vary, alter, modify or amend any provisions of these Regulations.

**19. Power to remove difficulties**

If any difficulty arises in giving effect to the provisions of these Regulations, the Commission may, by general or specific order, make such provisions not inconsistent with the provisions of the Act, as may appear to be necessary for removing the difficulty.

**20. Power to relax**

The Commission may by general or special order, for reasons to be recorded in writing, and after giving an opportunity of hearing to the parties likely to be affected by grant of relaxation, may relax any of the provisions of these Regulations on its own motion or on an application made before it by an interested person.

**21. Power to issue directions**

If any difficulty arises in giving effect to these Regulations, the Commission may on its own motion or on an application filed by any affected party, issue such directions as may be considered necessary in furtherance of the objective and purpose of these Regulations.

Secretary  
Meghalaya State Electricity Regulatory  
Commission

Date: 10<sup>th</sup> August, 2018

Place: Shillong

**Annexure-1****1. Deviation charges for sellers, buyers, and other conditions:**

- 1) As specified in the Regulation 9 (A) of these Regulations, the charges for the Deviations for all the time-blocks shall be payable for over-drawal by the Buyer and under-injection by the Seller and receivable for under-drawal by the Buyer and over-injection by the Seller, which are State Entities, and shall be worked out on the average frequency of a time-block by considering the Price Vector for Deviation Charges as specified in the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2014 and its amendments as stipulated in the following table:

Average frequency of time block (Hz)		Basic Rate of Charges for Deviation
Below	Not below	(Paise / kWh)
	50.05	0.00
50.05	50.04	35.60
50.04	50.03	71.20
50.03	50.02	106.80
50.02	50.01	142.40
50.01	50.00	178.00
50.00	49.99	198.84
49.99	49.98	219.68
49.98	49.97	240.52
49.97	49.96	261.36
49.96	49.95	282.20
49.95	49.94	303.04
49.94	49.93	323.88
49.93	49.92	344.72
49.92	49.91	365.56
49.91	49.90	386.40
49.90	49.89	407.24
49.89	49.88	428.08
49.88	49.87	448.92
49.87	49.86	469.76
49.86	49.85	490.60
49.85	49.84	511.44
49.84	49.83	532.28
49.83	49.82	553.12
49.82	49.81	573.96
49.81	49.80	594.80
49.80	49.79	615.64
49.79	49.78	636.48

Average frequency of time block (Hz)		Basic Rate of Charges for Deviation
Below	Not below	(Paise / kWh)
49.78	49.77	657.32
49.77	49.76	678.16
49.76	49.75	699.00
49.75	49.74	719.84
49.74	49.73	740.68
49.73	49.72	761.52
49.72	49.71	782.36
49.71	49.70	803.20
49.70		824.04

(Charges for deviation for each 0.01 Hz step is equivalent to 35.60 Paise/kwh in the frequency range of 50.05 to 50.00 Hz, and 20.84 Paise/kWh in frequency range 'below 50 Hz to 'below 49.70 Hz')

## 2. Deviation Charges applicable for Inter-State open access transactions of State Entities:

The charges for deviation including additional charges for deviation for inter-state Open Access transactions of State Entities shall be levied by considering 95% of the rates as specified in the table above when these charges are receivable to the State Entities, as per regulation 9 & 10 and the charges for deviation shall be levied by considering 105% of the rates as specified in the table above, when these charges are payable by the State Entities.

**Annexure-II: Additional Deviation Charges****TABLE – I: Additional Deviation Charge (for Seller/Buyer)**

<b>(A) When 12% of the Schedule is less than or equal to [10] MW</b>		
1	For over-drawal of electricity by any Buyer in excess of 12% and upto 15% of the schedule in a time block	Equivalent to 20% of Charge for Deviation corresponding to average grid Frequency of the time-block
2	For over-drawal of electricity by any Buyer in excess of 15% and upto 20% of the schedule in a time block	Equivalent to 40% of Charge for Deviation corresponding to average grid Frequency of the time-block
3	For over-drawal of electricity by any Buyer in excess of 20% of the schedule in a time block	Equivalent to 100% of Charge for Deviation corresponding to average grid Frequency of the time-block
4	For under-injection of electricity by any Seller in excess of 12% and upto 15% of the schedule in a time block	Equivalent to 20% of Charge for Deviation corresponding to average grid Frequency of the time-block
5	For under-injection of electricity by any Seller in excess of 15% and upto 20% of the schedule in a time block	Equivalent to 40% of Charge for Deviation corresponding to average grid Frequency of the time-block
6	For under-injection of electricity by any Seller in excess of 20% of the schedule in a time block	Equivalent to 100% of Charge for Deviation corresponding to average grid Frequency of the time-block
<b>(B) When 12% of the Schedule is more than [10] MW</b>		
1	For over-drawal of electricity by any Buyer is above X MW and upto X+[10] MW in a time block	Equivalent to 20% of Charge for Deviation corresponding to average grid Frequency of the time-block
2	For over-drawal of electricity by any Buyer is above X+[10] MW and upto X + [20] MW in a time block	Equivalent to 40% of Charge for Deviation corresponding to average grid Frequency of the time-block
3	For over-drawal of electricity by any Buyer is above X + 20 MW in a time block	Equivalent to 100% of Charge for Deviation corresponding to average grid Frequency of the time-block
<b>(B) When 12% of the Schedule is more than [10] MW</b>		
4	For under-injection of electricity by any Seller is above [10] MW and upto [20] MW in a time block	Equivalent to 20% of Charge for Deviation corresponding to average grid Frequency of the time-block

5	For under-injection of electricity by any Seller is above [20] MW and upto [25] MW in a time block	Equivalent to 40% of Charge for Deviation corresponding to average grid Frequency of the time-block
6	For under-injection of electricity by any Seller is above [25] MW in a time block	Equivalent to 100% of Charge for Deviation corresponding to average grid Frequency of the time-block

**TABLE – II: Additional Deviation Charge for Under-injection by Generating Stations regulated by the Commission using coal or lignite or gas supplied under Administered Price Mechanism (APM)**

<b>(A) When 12% of the Schedule is less than or equal to [10] MW</b>		
1	For under-injection of electricity by any Seller in excess of 12% and upto 15% of the schedule in a time block	Equivalent to 20% of Cap Rate for Deviations of [303.04] Paise/kWh or charge for Deviation corresponding to average grid Frequency of the time-block, whichever is less.
2	For under-injection of electricity by any Seller in excess of 15% and upto 20% of the schedule in a time block	Equivalent to 40% of Cap Rate for Deviations of [303.04] Paise/kWh or charge for Deviation corresponding to average grid Frequency of the time-block, whichever is less.
3	For under-injection of electricity by any Seller in excess of 20% of the schedule in a time block	Equivalent to 100% of Cap Rate for Deviations of [303.04] Paise/kWh or charge for Deviation corresponding to average grid Frequency of the time-block, whichever is less.
<b>(B) When 12% of the Schedule is more than [10] MW</b>		
1	For under-injection of electricity by any Seller is above X MW and upto X+[10] MW in a time block	Equivalent to 20% of Cap Rate for Deviations of [303.04] Paise/kWh or charge for Deviation corresponding to average grid Frequency of the time-block, whichever is less.
2	For under-injection of electricity by any Seller is above X+[10] MW and upto X + [20] MW in a time block	Equivalent to 40% of Cap Rate for Deviations of [303.04] Paise/kWh or charge for Deviation corresponding to average grid Frequency of the time-block, whichever is less.
3	For under-injection of electricity by any Seller is above X + [20] MW in a time block	Equivalent to 100% of Cap Rate for Deviations of [303.04] Paise/kWh or charge for Deviation corresponding to average grid Frequency of the time-block, whichever is less.



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## PART-IIA

### MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION

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#### NOTIFICATION

The 10<sup>th</sup> August, 2018.

**(DRAFT) MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION  
(FORECASTING, SCHEDULING AND DEVIATION SETTLEMENT FOR SOLAR AND  
WIND GENERATION) REGULATIONS, 2018**

**No.MSERC/REGULATIONS/2018/03.-** In exercise of the powers conferred under sub-section (3) of Section 32, sub-section (4) of Section 33, Clauses (b),(e) and (h) of sub-section (1) of Section 86, and Clauses (g) and (zp) of sub-section (2) of Section 181 of the Electricity Act, 2003 (36 of 2003) and all other powers hereunto enabling it and in its behalf, the Meghalaya State Electricity Regulatory Commission makes the following Regulations, for previous publications, namely: “Meghalaya State Electricity Regulatory Commission (Forecasting, Scheduling and Deviation Settlement for Solar and Wind Generation) Regulations, 2018”.

## PRELIMINARY

### 1 Short Title, Commencement and Extent

- 1.1 These Regulations may be called the “Meghalaya State Electricity Regulatory Commission (Forecasting, Scheduling and Deviation Settlement for Solar and Wind Generation) Regulations, 2018”.
- 1.2 These Regulations shall come into force from the date of their publication in the Official Gazette:

Provided that the Commercial Arrangements specified in these Regulations, and the related provisions regarding Deviation Charges and penalty, shall come into force six months thereafter.

### 2 Definitions

- 2.1 In these Regulations, unless the context otherwise requires:

- (a) “Absolute Error” means the difference between the scheduled and the actual generation injected by Solar or Wind Energy Generators in relation to their Available Capacity (AvC) in each time block, and may be computed in percentage terms by applying the following formula:

$$\text{Absolute Error (\%)} = 100 \times \frac{[\text{Actual Generation} - \text{Scheduled Generation}]}{\text{AvC}}$$

- (b) “Act” means the Electricity Act, 2003 (36 of 2003), as amended from time to time;
- (c) “Actual Drawal” in a time block means the electricity drawn by a Procurer, as measured by the interface meters;
- (d) “Actual Generation” in a time block means the electricity generated and injected into the Grid by a Generator, as measured by the interface meters;
- (e) “Available Capacity” (or “AvC”) of Wind or Solar Energy Generators means the cumulative capacity of the Wind turbines, Solar inverters or Solar thermal generators that are capable of generating power in a given time block;
- (f) “Commission” means the Meghalaya State Electricity Regulatory Commission;
- (g) “De-Pooling” means the disaggregation and apportionment of the deviations and the applicable charges among the Generators at a Pooling Sub-Station;
- (h) “Deviation” in a time block means the difference between the actual injection of energy and scheduled generation;
- (i) “Forecasting” means the projection of likely future electricity generation based on scientific analysis of meteorological data and other relevant parameters;

- (j) “Gaming” in relation to these regulations, shall mean an intentional mis-declaration of available capacity or schedule by any generator in order to make an undue commercial gain through Charge for Deviation.
- (k) “Grid Code” means the State Grid Code specified by the Commission under Section 86(1) (h) of the Act;
- (l) “Indian Electricity Grid Code” (or “IEGC”) means the Grid Code specified by the Central Electricity Regulatory Commission under Section 79(1)(h) of the Act;
- (m) “Interface Meter” shall have the same meaning as in the Regulations of the Central Electricity Authority governing the installation and operation of Meters;
- (n) “Inter-connection point” means the interface point of a generation facility with the transmission or distribution system; and shall mean, in relation to a Wind or Solar Energy facility, the line isolator on the outgoing feeder on the High Voltage (HV) side of the Pooling Sub-Station;
- (o) “Pool Account” means the State Account for receipts and payments on account of deviations by Wind and Solar Energy Generators;
- (p) “Pooling Sub-Station” means a Sub-Station consisting of a step-up transformer and associated switchgear to the Low Voltage (LV) side of which several Wind or Solar Energy Generators are connected:

Provided that, where a Generating Unit is connected through a common or an individual feeder terminating at a Sub-Station of a Distribution Licensee, the State Transmission Utility or the Central Transmission Utility, such Sub-Station shall be treated as the Pooling Sub-Station for such Wind or Solar Energy Generator for the purposes of these Regulations;

- (q) “Procurer” means a person, including a Distribution Licensee, Trading Licensee or an Open Access consumer, procuring electricity through a transaction scheduled in accordance with the Regulations governing Open Access;
- (r) “Qualified Co-ordinating Agency” (or “QCA”) means the agency appointed by the Wind or Solar Energy Generators connected to a Pooling Sub-Station, or by an individual Generator connected directly to a Sub-Station, to perform the functions and discharge the obligations specified in these Regulations;
- (s) “Scheduled Generation”, for a time block or other time period, means the Schedule of generation in MW or MWh ex-bus provided by the State Load Despatch Centre;
- (t) “Scheduled Drawal” for a time block or other time period means the Schedule of despatch in MW or MWh ex-bus provided by the State Load Despatch Centre;
- (u) “Seller” means a person, including a Generating Station supplying electricity through a transaction scheduled in accordance with the Regulations governing Open Access;
- (v) “State DSM Pool Account” means the State Account for receipts and payments on account of deviations by Procurers and Sellers including Wind or Solar Energy Generators;



- (w) “State Entity” means a Solar or Wind Generator in the area of control of the State Load Despatch Centre and whose metering and energy accounting is undertaken at the State level;
- (x) “State Load Despatch Centre” (or “SLDC”) means the Load Despatch Centre of Meghalaya established under Section 31(1) of the Act and responsible for coordinating the scheduling of the State Entities in accordance with the provisions of the State Grid Code;
- (y) “Time block” means a period of 15 minutes for which specified electrical parameters and quantities are recorded by a Special Energy Meter, with the first time block starting at 00.00 hrs., or such other period as the Commission may stipulate.
- 2.2 Words or expressions used and not defined in these Regulations shall have the meaning assigned to them in the Act, or the Rules or other Regulations framed thereunder.

## **PART A**

### **GENERAL**

#### **3 Objective**

- 3.1. These Regulations are intended to facilitate Grid integration of Wind and Solar energy generated in Meghalaya while maintaining Grid stability and security as envisaged under the State Grid Code and the Act, through forecasting, scheduling and a mechanism for the settlement of deviations by such Generators.
- 3.2. In order to maintain system security, stability and reliability, the SLDC shall take into consideration the forecasts of Wind and Solar generation for Week-Ahead, Day-Ahead and intra-Day operations and scheduling, and longer term forecasts for its planning.
- 3.3. The SLDC shall make use of the flexibility provided by conventional Generating Units and the capacity of inter-Grid tie-lines to accommodate Wind and Solar energy generation to the largest extent possible subject to Grid security.

#### **4 Applicability**

- 4.1 These Regulations shall apply to all Wind and Solar Energy Generators in Meghalaya connected to the Intra-State Transmission System, including those connected through Pooling Sub-Stations, and using the power generated for self-consumption or sale within or outside the State:

Provided that the combined installed capacity of the Solar or Wind Generators connected to a particular Pooling Sub-Station, or that of an individual Generator connected to some other Sub-Station, shall not be less than 1 MW.

- 4.2 The Commission shall review these Regulations after two years, or earlier if it considers necessary.

**PART B****TECHNICAL ARRANGEMENTS: FORECASTING AND SCHEDULING CODE****5 Forecasting and Scheduling Code**

- 5.1. This Forecasting and Scheduling Code specifies the methodology for Day-Ahead scheduling of Wind and Solar Energy Generators connected to the Intra-State Transmission Network, its revisions on a one and a half hourly basis, and the treatment of their deviations from such Schedules.
- 5.2. The Wind and Solar Energy Generators at each Pooling Sub-Station shall appoint a QCA:
- Provided that an individual Generator not connected to a Pooling Sub-Station may opt to be its own or to appoint a separate entity as its QCA.
- 5.3. The QCA shall be treated as a State Entity.
- 5.4. Every QCA shall be registered with the SLDC in accordance with the Detailed Procedure prescribed in pursuance of Regulation 5.21.
- 5.5. Notwithstanding the appointment of a QCA, the onus of complying with the relevant provisions of these Regulations shall remain that of the concerned Generators, and the commercial and other arrangements between them and their QCA shall be governed by their inter-se agreements or terms of engagement.
- 5.6. The QCA shall be appointed by the Generators for the purposes specified in these Regulations, including but not limited to the following:
- a) Meter reading and data collection and its communication, and co-ordination with the Distribution Licensees, the SLDC and other agencies;
  - b) De-pooling of amounts payable on behalf of the constituent Generator of the Pooling Sub-Station from the State DSM Pool Account and settling them with each Generator;
  - c) Settlement of the Deviation Charges specified in these Regulations with the SLDC on behalf of the Generators.
- 5.7. The QCA shall be the single point of contact between the SLDC and its Generators for the purposes of these Regulations.
- 5.8. The QCA shall furnish the technical specifications of the Generators whom it represents to the SLDC in the prescribed format, at the time of its registration or within such period thereafter as may be stipulated by the SLDC in its Detailed Procedure, and when there is a change in these specifications.
- 5.9. The QCA shall provide real-time data relating to the power generation parameters and weather-related data, as may be required, to the SLDC.
- 5.10. Meters shall be installed for energy accounting in accordance with the relevant provisions of the Central Electricity Authority (CEA) Regulations governing metering, along with telemetry

/communication and Data Acquisition Systems for the transfer of information to the SLDC by the QCA.

- 5.11. The QCA shall furnish to the SLDC the aggregated forecasts relating to its Wind and Solar Energy Generators connected to the intra-State Transmission network, with details of their Availability.
- 5.12. The SLDC shall also undertake forecasting of the Wind and Solar energy generation expected to be injected into the intra-State Transmission network at each location, by engaging forecasting agencies if required, so as to enable it to better plan for the balancing resources required for secure Grid operation.
- 5.13. The QCA shall aggregate the Schedules of all Generators connected to a Pooling Sub-Station and communicate to the SLDC. QCA can undertake forecasting and scheduling for multiple pooling substations, however scheduling, energy accounting and deviation monitoring for each pooling substation of wind or solar power generation shall be undertaken separately.
- 5.14. No Wind or Solar energy generation shall be considered for despatch by the SLDC if it is not scheduled by the QCA on behalf of the Generators in accordance with the provisions of these Regulations.
- 5.15. The QCA may adopt the forecast of the SLDC for preparing its Schedule or provide SLDC with a Schedule based on its own forecast, which shall be the reference Schedule for the purposes of deviation determination and settlement:

Provided that, if the QCA opts to adopt the forecast of the SLDC, the consequences of any error in such forecast which results in a deviation from scheduling shall be borne by the concerned Generators through their QCA.
- 5.16. The SLDC shall recover such charges as may be approved by the Commission for providing its forecasting services to the QCA; and the amount so recovered shall be treated as 'other income' in the Aggregate Revenue Requirement of the SLDC for the determination of its Fees and Charges.
- 5.17. The QCA shall provide to the SLDC a Day-Ahead and a Week-Ahead Schedule for each Pooling Sub-Station or each stand-alone Generating Station, as the case may be, to enable it to assess the Availability of energy and the margin available in the State Grid.
- 5.18. The Day-Ahead Schedule shall comprise the Wind or Solar energy generation to be scheduled in each 15-minute time block starting from 00:00 hours of the following day, and for all 96 time blocks of that day; and the Week-Ahead Schedule shall contain the same information for the next seven days.
- 5.19. The QCA may revise the Schedule of Generators connected to the Intra-State Transmission Network (excluding collective transactions) by giving advance notice to the SLDC;

Provided that, such revisions shall be effective from the 4<sup>th</sup> time block following the time block in which notice was given;

Provided further that, there may be one revision for each time slot of one and half hours starting from 00.00 hours of a particular day, subject to a maximum of 16 revisions during the day.

- 5.20. The plan for data telemetry, formats of forecast submission and other modalities and requirements shall be stipulated in the Detailed Procedure to be submitted by the SLDC within three months, which the Commission shall endeavour to approve within a month thereafter.

Provided that, SLDC shall undertake stakeholder consultation by uploading the Draft Procedure on SLDC's website before submission to the Commission for approval.

- 5.21. The Detailed Procedure shall address the following aspects:

- a) The procedure and requirements, including the payment of fees and penalties for the registration and de-registration of QCAs by the SLDC, payment security mechanism between QCA and SLDC.
- b) The information and data, and the formats, required by the SLDC from the QCAs and to be provided by the SLDC to them.
- c) The mode and protocol of communication for exchange of information and data between the QCAs and the SLDC.
- d) The guidelines for energy and deviation accounting of Wind and Solar energy transactions under the State energy accounting framework, with illustrative examples, in accordance with the principles specified in these Regulations.
- e) The mechanism for monitoring compliance of the Forecasting and Scheduling Code by the QCAs.
- f) The default conditions in the State Pool Settlement by QCAs and their treatment.

- 5.22. The commercial impact of deviations from Schedules based on the forecasts shall be borne by the Generators through their QCAs.

- 5.23. Treatment for Gaming:

- a) Any intentional mis-declaration of Available Capacity to the SLDC for its own undue commercial gain or that of a Generator shall be considered as gaming and shall constitute a breach of these Regulations.
- b) The QCA shall be liable to pay a penalty of three times the Deviation Charges that would have been applicable had the Available Capacity been correctly declared.
- c) The amount of penalty shall be payable by the QCA to the State Deviation Settlement Mechanism (DSM) Pool, through the SLDC.
- d) The SLDC may, after giving due notice and as stipulated in the Detailed Procedure, cancel the registration of the QCA upon repeated events of mis-declaration.

## **6 Principles of appointment of QCA**

6.1. The Generators at a Pooling Sub-Station may appoint one amongst themselves or any other entity as a QCA:

Provided that, for each Pooling Station, there shall be only one QCA.

Provided further, that an individual Generator not connected through a Pooling Sub-Station may opt to be its own QCA or to appoint a separate entity.

6.2. The QCA shall be appointed with the approval of at least 51% of the Generators at a Pooling Sub-Station, in terms of their combined installed capacity and on appointment, the QCA shall perform all functions assigned in these Regulations for all generators connected to the Pooling sub-station.

6.3. The Generators shall satisfy themselves that the QCA is technically and financially competent to undertake on their behalf the functions and discharge the obligations specified in these Regulations.

6.4. The terms of engagement of the QCA shall include provisions on the following aspects:

- a) The respective roles and responsibilities of the QCA and Generators;
- b) The metering, billing and energy accounting arrangements;
- c) The modalities for recovery of Deviation Charges from the Generators and their settlement, including the principles for de-pooling;
- d) The payment security mechanism and related provisions between QCA and Generators;
- e) The events of default and their mitigation.

## **PART C**

### **COMMERCIAL ARRANGEMENTS**

## **7 Deviation Settlement for Intra-State Transactions**

7.1 The sale of power within Meghalaya by Solar and Wind Energy Generators connected to the Intra-State Transmission Network shall be settled by the Procurers on the basis of their actual generation, whereas the Deviation Settlement shall be undertaken as specified in these Regulations.

Solar or Wind Energy Generator who deviates from its given Schedule shall be liable to pay a Deviation Charge under the provisions of these Regulations.

7.2 In respect of sale or self-consumption of power within Meghalaya, if the actual injected generation of a stand-alone Generator or the aggregate of such generation at a Pooling Sub-Station, as the case may be, differs from the scheduled generation, the Deviation Charge for the excess or shortfall shall be payable by the QCA to the Pool Account, through the SLDC, as specified in Table 1 below:

**Table 1: Deviation Charge for under- or over-injection, for sale or self-consumption of power within Meghalaya**

Sr. No.	Absolute Error in %age terms in 15-minute time block	Deviation Charge payable to Pool Account for Wind/Solar Generation
1	< = 15%	None*
2	>15% but <=25%	At Rs. 0.50 per unit
3	>25% but <=35%	At Rs. 0.50 per unit for the shortfall or excess beyond 15% and upto 25% + Rs. 1.00 per unit for the balance energy beyond 25% and upto 35%
4	>35%	At Rs. 0.50 per unit for the shortfall or excess beyond 15% and upto 25% + Rs. 1.00 per unit for the shortfall or excess beyond 25% and up to 35% + Rs. 1.50 per unit for the balance energy beyond 35%

[\* : subject to the conditions specified in Regulation 12]

- 7.3. The SLDC and the QCA shall maintain records and accounts of the time block-wise Schedules, the actual generation injected and the deviations, for the Pooling Sub-Station and the individual Generators separately.
- 7.4. The QCA shall undertake de-pooling of the energy deviations and the Deviation Charges against each Generator at the Pooling Sub-Station as specified in Regulation 16.
- 7.5. The QCA shall undertake the settlement of the Deviation Charges with the SLDC on behalf of the concerned Generators.
- 7.6. The Deviation Charges for under- or over-injection by Generators connected to the Intra-State Transmission Network and selling or consuming power outside Meghalaya shall be governed by the Regulations of the Central Electricity Regulatory Commission (CERC) governing the Inter-State Deviation Settlement Mechanism and related matters; and the accounting for this purpose shall be done by the SLDC limited to the deviations in the Intra-State Transmission Network resulting from such under- or over-injection.

## **8 Deviation Settlement for Inter-State Transactions**

- 8.1 The sale or self-consumption of power outside Meghalaya by Solar and Wind Energy Generators connected to the Intra-State Transmission Network shall be settled by the Procurers on the basis of their scheduled generation.

- 8.2 Inter-State transactions at a Pooling Sub-Station shall be permitted only if the concerned Generator is connected through a separate feeder.
- 8.3 The Generator shall submit, through the QCA, a separate Schedule for its energy generation, in accordance with these Regulations, to the SLDC and the concerned Regional Load Despatch Centre (RLDC).
- 8.4 The SLDC shall prepare the deviation settlement account for such Generator on the basis of measurement of the deviation in the energy injected and its impact at the State periphery.
- 8.5 The Generator shall pay the Deviation Charges applicable within Meghalaya in case of deviations in the State DSM Pool Account, the consequences of such deviation at the Inter-State level being governed by the CERC Regulations governing the Deviation Settlement Mechanism and related matters.
- 8.6 The Deviation Charges for under- or over-injection by Generators connected to the Intra-State Transmission Network and selling or consuming power outside Meghalaya shall be as specified in the Annexure to these Regulations, the accounting for which shall be done by the SLDC.

## **9 Deviation Settlement for Inter- and Intra-State Transactions: other provisions**

- 9.1 Deviations in respect of Inter-State and Intra-State transactions shall be accounted for separately at each Pooling Sub-Station.
- 9.2 The SLDC shall provide separate energy and DSM accounts for Inter-State and Intra-State transactions to the QCA, who shall settle the Deviation Charges with the concerned Generators.

## **PART D**

### **IMPLEMENTATION ARRANGEMENTS**

## **10 Implementation Procedure**

### **10.1 Metering**

Every Pooling Station and stand-alone Generator with installed capacity of 5 MW or above shall have a Special Energy Meter (SEM) capable of recording the energy in 15-minute time blocks as specified in the CEA Regulations governing metering.

The QCA shall furnish weekly meter readings to the SLDC by 00.00 hours on the Thursday of the previous week, in addition to the data provided to the Supervisory Data and Control Acquisition (SCADA) Centre, for the purpose of energy accounting under these Regulations.

## 10.2 Energy Accounting

The energy accounting shall be undertaken on the basis of the data recorded by the SEM referred to in Regulation 10.1.

## 11 Communication between QCA and SLDC

11.1 The Detailed Procedure prescribed by the SLDC shall set out the protocol for communication and exchange of information between the QCA and the SLDC, including with regard to the following aspects:

- a) Communication of the Day-Ahead, intra-Day and Week-Ahead Schedule and any revisions to the SLDC.
- b) Communication of the real-time generation at the Pooling Sub-Station or by the stand-alone Generator
- c) Communication of Grid constraints and curtailments by the SLDC to the QCA.

11.2 The SLDC shall equip itself with the necessary Information Technology (IT)-enabled communication platform and software for communication between it and the QCA.

11.3 The QCA shall provide the IT-enabled communication software log-in details to enable the SLDC to access live data of all Schedules and deviations and facilitate the timely billing and payment of Deviation Charges.

11.4 The IT-enabled communication platform and software should enable the SLDC and QCA to exchange information, including with regard to the following:

- a) Generator outages and their reasons;
- b) Deviation Charges payable by the QCA;
- c) Site characteristics and details of the Wind Turbines, Solar Inverters, etc.;
- d) Schedules and generation handled by the QCA.

## 12 Deviation Accounting

12.1 The methodology for deviation settlement for the State shall be as follows:

- a) The Deviation Charge (D) payable or receivable for the State as a whole at the State periphery shall first be computed by the SLDC.
- b) The SLDC shall compute the impact of the deviation of the Solar and Wind Energy Generation and its contribution to the Deviation Charge (D) at the State periphery.
- c) The SLDC shall compute the Absolute Error, i.e. the difference between the actual and the scheduled energy injected, in respect of each Pooling Sub-Station and each Generator feeding energy directly to another Sub-Station, and shall accordingly determine the amounts payable on account of the Deviation Charge (R) in accordance with Regulations 7 and 8.



- d) SLDC shall calculate the deviation for each pooling station and for each generator who is not a part of the pooling station feeding directly to the substation, assuming (i) the share out of state level deviation charge as 'D' and (ii) receipt of deviation charge from each pooling station and for each generator who is not a part of the pooling station feeding directly to the sub-station based on the charges for deviation, as (R). Actual commercial impact for the state as a result of deviation of wind and solar generation would be D minus R.
- e) This amount D minus R shall be further allocated to each pooling station and for each generator who is not a part of the pooling station feeding directly to the sub-station in proportion to their deviation.

### 12.2 Settlement of Deviation Charges

The SLDC shall compute the deviations from the Schedule, determine the Deviation Charges payable and bill the QCA accordingly.

### 13 Payment Mechanism for Deviation Settlement

- 13.1 The QCA shall pay the amount of Deviation Charges to the SLDC, and collect it from the concerned Generators in proportion to their actual generation:

Provided that the onus of ensuring the payment of the Deviation Charges to the SLDC by the QCA shall remain that of the concerned Generators.

- 13.2 The Deviation Charges shall be paid within ten days from the issue of the accounts and billing by the SLDC, failing which a late payment surcharge amounting to 1.25% per month shall be levied for the period of delay.
- 13.3 The Deviation Charges shall be paid within ten days from the issue of the accounts and billing by the SLDC, failing which a late payment surcharge amounting to 1.25% per month shall be levied for the period of delay.
- 13.4 The wind/solar energy generator/QCA shall provide payment security through an irrevocable letter of credit(LC) in favour of SLDC for an amount equivalent to 1.5 times of average of weekly deviation amount for the past four settlement periods. The details of the payment security payable shall be covered in the detailed procedure of SLDC to be formulated as per regulation 5.21.
- 13.5 Notwithstanding levy of interest specified in 13.2 of this regulation, for delay in payment of deviation charges, in case of failure to pay the deviation charges into the State Deviation Pool (wind and solar), the SLDC shall be entitled to encash the LC of the concerned constituent to the extent of default and the concerned constituent shall recoup the LC amount within 3 days.
- 13.6 All payments to the QCAs/generators entitled to receive any amount on account of charges for deviation shall be made within 2 working days of receipt of payments in the State Deviation Pool Account.

**14 Intimation of Curtailment**

- 14.1 Any curtailment imposed on the energy injection for reliable and secure Grid operation in emergency situations shall be communicated by the SLDC to the QCA through an IT-enabled communication, and no Deviation Charges shall be payable for any consequent deviations if the SLDC fails to do so.
- 14.2 In case of any curtailment planned and communicated by the SLDC due to line maintenance or other reasons in certain time blocks of a day, the QCA shall be responsible for curtailing the generation at site and amending the Schedule accordingly, failing which the SLDC shall revise the Schedule as required.

**15 Energy Accounting**

- 15.1 All accounts relating to deviations shall be prepared by the QCA on a weekly basis based on inputs from the SLDC, and be accessible to the SLDC through an IT-enabled system and software.
- 15.2 The SLDC shall furnish the processed data on a weekly basis by Thursday mid-night for the seven-day period ending on the previous Sunday mid-night to the concerned QCA in the prescribed format, for the preparation of weekly Energy Accounts of energy from the Pooling Sub-Station or the stand-alone Generator, as the case may be.
- 15.3 Any discrepancy communicated by the QCA within 15 days shall be corrected forthwith by the SLDC after verification.

**16 De-Pooling of Deviation Charges**

The QCA shall de-pool the energy deviations and the Deviation Charges against each Generator in proportion to its actual generation.

**PART E****MISCELLANEOUS****17 Power to Amend**

The Commission may, at any time and on such terms as to costs or otherwise, as it may think fit, rectify any defect or error in any proceeding before it, and all acts shall be done for the purpose of determining the real question or issue arising in the proceedings.

**18 Power to remove difficulties.**

Where any difficulty arises in giving effect to any of the provisions of this Regulation, the Commission may, by general or special order, do anything not being inconsistent with the provisions of the Act, 2003 or Reform Act, 1998, which appears to it to be necessary or expedient for the purpose of removing the difficulties.

**19 Power to relax**

The Commission may by general or special order, for reasons to be recorded in writing, and after giving an opportunity of hearing to the parties likely to be affected by grant of relaxation, may relax any of the provision of these Regulations on its own motion or on an application made before it by an interested person.

**20 Power to issue Practice Directions**

Subject to the provisions of the Act, 2003 and this Regulation, the Commission may, from time to time, issue orders and directions in regard to the implementation of the Regulation and procedure to be followed and various matters which the Commission has been empowered by this Regulation to specify or direct, as may be considered necessary in furtherance of the objective and purpose of this Regulation.

Date: \_\_\_\_ August, 2018

Place: Shillong

Secretary  
Meghalaya State Electricity Regulatory  
Commission

**ANNEXURE****Framework for Deviation Charges for under- or over-injection by Solar and Wind Generators connected to the Intra-State Transmission network and selling or consuming power outside Meghalaya State**

1. The Deviation Charges in respect of Solar and Wind Energy Generators connected to the Intra-State Transmission Network and selling or consuming power outside Meghalaya State shall be as follows:
- a) If the actual generation is lower than scheduled, the Deviation Charges for the shortfall shall be payable by the QCA to the State DSM Pool Account as given in Table A below:

**Table A: Deviation Charges in case of under-injection**

Sr. No.	%age Absolute Error in 15-minute time block	Deviation Charges payable to State DSM Pool Account
1	< =15%	At the fixed rate for the shortfall in energy for Absolute Error upto 15%
2	>15% but <= 25%	At the fixed rate for the shortfall in energy for Absolute Error upto 15% + 110% of the fixed rate for the balance energy beyond 15% and upto 25%
3	>25% but <=35%	At the fixed rate for the shortfall in energy for Absolute Error upto 15% + 110% of the fixed rate for the balance energy beyond 15%, and upto 25% + 120% of the fixed rate for the balance energy beyond 25% and upto 35%
4	> 35%	At the fixed rate for the shortfall in energy for Absolute Error upto 15% + 110% of the fixed rate for the balance energy beyond 15% and upto 25% + 120% of the fixed rate for balance energy beyond 25% and upto 35% + 130% of the fixed rate for the balance energy beyond 35%

The 'fixed rate' referred to in Table A is the Power Purchase Agreement (PPA) rate determined by the Commission under Section 62 of the Act or adopted by the Commission under Section 63. In case of multiple PPAs, the fixed rate shall be the weighted average of the PPA rates. The Solar and Wind Energy Generators shall furnish the PPA rates on affidavit to the SLDC for the purpose of preparation of the Deviation Charge account, along with copies of the PPAs.

The fixed rate for Solar and Wind Energy Captive Power Plants or Open Access Generators selling power which is not counted against the Renewable Purchase Obligation (RPO) compliance of the Procurer shall be the Average Power Purchase Cost (APPC) rate at the national level, as determined by the CERC from time to time.

- b) If the actual generation is higher than scheduled, the Deviation Charges for the excess generation shall be payable to the Solar or Wind Energy Generator through the QCA from the State DSM Pool Account, as given in Table - B below:

**Table B: Deviation Charges in case of over-injection**

Sr. No.	%age Absolute Error in 15-minute time block	Deviation Charges payable from State DSM Pool Account
1	$\leq 15\%$	At the fixed rate for the excess energy upto 15%
2	$>15\%$ but $\leq 25\%$	At the fixed rate for the excess energy upto 15% + 90% of the fixed rate for excess energy beyond 15% and upto 25%
3	$>25\%$ but $\leq 35\%$	At the fixed rate for the excess energy upto 15% + 90% of the fixed rate for excess energy beyond 15% and upto 25% + 80% of the fixed rate for excess energy beyond 25% and upto 35%
4	$> 35\%$	At the fixed rate for the excess energy upto 15% + 90% of the fixed rate for excess energy beyond 15% and upto 25% + 80% of the fixed rate for excess energy beyond 25% and upto 35% + 70% of the fixed rate for excess energy beyond 35%

The 'fixed rate' referred to in Table B is the PPA rate determined by the Commission under Section 62 of the Act or adopted by the Commission under Section 63. In case of multiple PPAs, the fixed rate shall be the weighted average of the PPA rates. The Solar and Wind Energy Generators shall furnish the PPA rates on affidavit to the SLDC for the purpose of preparation of the Deviation Charge account, along with copies of the PPAs.

- c) The fixed rate for Solar and Wind Energy Captive Power Plants and Open Access Generators selling power which is not counted against the RPO compliance of the Procurer shall be the APPC rate at the national level, as determined by the CERC from time to time. For the balancing of the deemed RPO compliance of Procurers with respect to Schedule, the aggregate deviations by Solar and Wind Energy Generators selling power outside the State shall first be netted off for the entire Pool on a monthly basis, and any remaining shortfall in generation shall be balanced through purchase of equivalent Solar or non-Solar Renewable Energy Certificates (RECs), as the case may be, by the SLDC by utilising funds from the State DSM Pool Account. In case of a positive balance of Solar or Wind Energy generation, equivalent notional RECs shall be credited to the State DSM Pool Account and carried forward for settlement in future.